

AUTOMATIC APPLICATION OF IMPLEMENTATION-SPECIFIC CONFIGURATION POLICIES

ABSTRACT

Techniques are described for application of implementation-specific configuration policies within a network device. For example, a device, such as a router, may comprise memory to store operational configuration data and candidate configuration data. The device further includes a control unit to apply changes to the candidate configuration data based on input from a client, and apply an implementation-specific configuration policy to a copy of the changed candidate configuration data. Based on a result of applying the implementation-specific configuration policy, the device selectively commits the changes made to the candidate configuration to the operational configuration. In the event an error occurs while applying the implementation-specific configuration policy, the device does not commit the changes to the operational configuration. In this manner, the device does not allow changes that violate the implementation-specific configuration policy to be committed to the operational configuration, thereby detecting misconfiguration that may otherwise be syntactically and semantically correct.